NOVUS

Multistandard AHD Recorder

NHDR-4116AHD





KEY FEATURES





















- •Video channels: 16, audio channels: 16
- •Recording speed: up to 480 fps (AHD), up to 720 fps
- •Internal HDDs mount: up to 2
- •Monitor outputs (main): 2
- •Supports HD analog cameras (720p, 1080p, 4MPX,
- •Supports AHD, TVI, CVI cameras
- •IP cameras support (hybrid mode)
- •Intelligent image analysis
- •PIR cameras support
- •Supports POS devices

DIMENSIONS



VIDEO	
Video Input	16 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 4Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD)
IP Streams	DVR mode: $16 \times BNC + 0 \times IP \cdot hybrid mode: 16 \times BNC + 8 \times IP \cdot IP mode: 0 \times BNC + 24 \times IP$
Supported IP resolution	max. 2592 x 1944
AUDIO	
Audio Input/Output	16 x RCA (Line-in)/1 x HDMI, 1 x RCA
RECORDING	
Compression	H.264, H.265

Recording Speed	480 fps (1280 x 720 - HD) • 240 fps (1920 x 1080 - FullHD) • 288 fps (1280 x 1440 - 4Mpx Lite) • 240 fps (1280 x 1944 - 5Mpx Lite) • 128 fps (2560 x 1440 - 4Mpx)
IP recording speed	hybrid mode: 240fps • IP mode: 720fps

IP stream size	hybrid mode: 32 Mb/s in total from all IP cameras • IP mode: 96 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion

Schedule individual settings for: each camera, each day of the week, configuration with an accuracy of: 30 min, possibility of combining individual recording modes

Prealarm/postalarm up to 3 s/up to 5 min

PLAYBACK Playback speed

IP playback speed	480 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

480 fps

BACKUP

Backup Methods	USB port (HDD or Flash memory), network	
Backup File Format	JPG, BMP, PNG, MP4, AVI	
STORAGE		
Internal storage	available mount: 2 x HDD 3.5" SATA	
Total Internal Capacity	28 TB	

ALARM	
Alarm Input/Output	16/1 relay type





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Motion Detection	36 x 44 grid, individual settings of sensitivity, PIR cameras support
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud
INTELLIGENT IMAGE ANALYSIS	S
Supported functions	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detestion, Cross counting, Sound detection
Number of channels	0 x BNC, 24 x IP (2000 and 4000 Serie)
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Number of Simultaneous Connection	sup to 20 (live monitoring: 20, playback: 1, configuration: 20)
Bandwidth	96 Mb/s in total to all client workstations
PTZ	
PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns
COAX	
COAX Functions	menu, zoom, focus, PTZ
COAX Functions POS	menu, zoom, focus, PTZ
	menu, zoom, focus, PTZ 4
POS	
POS Number of POS channels	4
POS Number of POS channels POS Interface	4 Ethernet, RS485
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POS Number of POS channels POS Interface POS Functions AUXILIARY INTERFACES USB Ports	4 Ethernet, RS485 display text on the video, keyword search, export text with the video
POS Number of POS channels POS Interface POS Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM	4 Ethernet, RS485 display text on the video, keyword search, export text with the video
POS Number of POS channels POS Interface POS Functions AUXILIARY INTERFACES USB Ports	4 Ethernet, RS485 display text on the video, keyword search, export text with the video 1 x USB 3.0, 1 x USB 2.0
POS Number of POS channels POS Interface POS Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System	4 Ethernet, RS485 display text on the video, keyword search, export text with the video 1 x USB 3.0, 1 x USB 2.0 Linux
POS Number of POS channels POS Interface POS Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD	4 Ethernet, RS485 display text on the video, keyword search, export text with the video 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-
POS Number of POS channels POS Interface POS Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD Control	4 Ethernet, RS485 display text on the video, keyword search, export text with the video 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard
POS Number of POS channels POS Interface POS Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD Control System Diagnostic	4 Ethernet, RS485 display text on the video, keyword search, export text with the video 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard automatic control of: HDDs, camera connection loss
POS Number of POS channels POS Interface POS Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD Control System Diagnostic Security	4 Ethernet, RS485 display text on the video, keyword search, export text with the video 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard automatic control of: HDDs, camera connection loss
POS Number of POS channels POS Interface POS Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD Control System Diagnostic Security INSTALLATION PARAMETERS	4 Ethernet, RS485 display text on the video, keyword search, export text with the video 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard automatic control of: HDDs, camera connection loss password protection, IP filtering
POS Number of POS channels POS Interface POS Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD Control System Diagnostic Security INSTALLATION PARAMETERS Dimensions (mm)	4 Ethernet, RS485 display text on the video, keyword search, export text with the video 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard automatic control of: HDDs, camera connection loss password protection, IP filtering 378 (W) x 50 (H) x 340 (D)
POS Number of POS channels POS Interface POS Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD Control System Diagnostic Security INSTALLATION PARAMETERS Dimensions (mm) Weight	4 Ethernet, RS485 display text on the video, keyword search, export text with the video 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard automatic control of: HDDs, camera connection loss password protection, IP filtering 378 (W) x 50 (H) x 340 (D) 2.5 kg (without HDDs)
POS Number of POS channels POS Interface POS Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD Control System Diagnostic Security INSTALLATION PARAMETERS Dimensions (mm) Weight Power Supply	4 Ethernet, RS485 display text on the video, keyword search, export text with the video 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard automatic control of: HDDs, camera connection loss password protection, IP filtering 378 (W) x 50 (H) x 340 (D) 2.5 kg (without HDDs) 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)







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The recorder is dedicated to work with AHD cameras, Novus 2000 and 4000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.

The recording speed of analog cameras may be limited during playback.



